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Version 1.0

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Trademark Recognition

Windows® VISTA/7 are registered trademarks of Microsoft Corp.

Other product names used in this manual are the properties of their respective owners and are acknowledged.

Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and the receiver
- Connect the equipment onto an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

Shielded interconnect cables and a shielded AC power cable must be employed with this equipment to ensure compliance with the pertinent RF emission limits governing this device. Changes or modifications not expressly approved by the system's manufacturer could void the user's authority to operate the equipment.

Declaration of Conformity

This device complies with part 15 of the FCC rules. Operation is subject to the following conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation

Canadian Department of Communications

This class B digital apparatus meets all requirements of the Canadian Interference-causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Réglement sur le matériel brouilieur du Canada.

Safety Instructions

Your system is designed and tested to meet the latest standards of safety for information technology equipment. However, to ensure your safety, it is important that you read the following safety instructions.

Setting up your system

- Read and follow all instructions in the documentation before you operate your system.
- Do not use this product near water or a heated source such as a radiator.
- Set up the system on a stable surface.
- Openings on the chassis are for ventilation. Do not block or cover these openings. Make sure you leave plenty of space around the system for ventilation. Never insert objects of any kind into the ventilation openings.
- Use this product in environments with ambient temperatures between 0°C and 40°C.
- If you use an extension cord, make sure that the total ampere rating of the devices plugged into the extension cord does not exceed its ampere rating.

Attention during use

- Do not step on the power cord or let anything rest on top of it.
- Do not spill water or any other liquid on your system.
- When the system is turned OFF, a small amount of electrical currentstill flows. Always unplug all power, modem, and network cables from the power outlets before cleaning the system.
- If you encounter the following technical problems with the product, unplug the power cord and contact a qualified service technician or your retailer.
    - The power cord or plug is damaged.
    - Liquid has been spilled into the system.
    - The system does not function properly even if you follow the operating instructions.
    - The system was dropped or the cabinet is damaged.
    - The system performance changes

The warranty does not apply to products that have been disassembled by users

Safety cautions and warnings

Optical Drive Satety Information

Optical drive sold with this system contains a CLASS 1 LASER PRODUCT.

CAUTION:

Invisible laser radiation when open. Do not stare into beam or view directly with optical instructions.

WARNING:

Makeing adjustments or performing procedures other than those specified in the user's manual may result in hazardous laser exposuer. Do not attempt to disassemble the optical drive. For your safety, have the optical drive serviced only by an authorized service provider.

Product disposal notice

INPORTANT:

This symbol if the crossed out wheeled bin indicates that the product (electrical and electronic equipment) should not be placed in municipal waste. Check local regulations for disposal of electronic products.

Nordic Lithium Cautions (for lithium-ion batteries)

CAUTION:

Danger of explosoin if battery is incorrectly replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

Product disposal notice

1. Do not place this product underneath heavy loads or in an unstable position.

2. Do not use or expose this product around magnetic fields as magnetic interference may affect the performance of the product.

3. Do not expose this product to high levels of direct sunlight, high-humidity or wet conditions.

4. Do not block the air vents to this product or impede the airflow in any way.

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Chapter 1
Introducing the PC

Introducting

Thank you for choosing 3.8L DS110 of great performance and with stylish and flexible design.

Support AMD® AMD E240/E350 processors and a dimension of 270mm (H)* 205mm (D)* 70mm (W), 3.8L SFF provides the features of low power consumption (working with a 65Watt power adaptor), and space saving. The chipset is AMD® Hudson D1, supporting up to 8 GB of system memory with DDR3 memory SO-DIMM, 3.5" SATA II HDD, SATA II Slim DVD Super-multi Tray type, and Build in AMD® Radeon HD 6310.

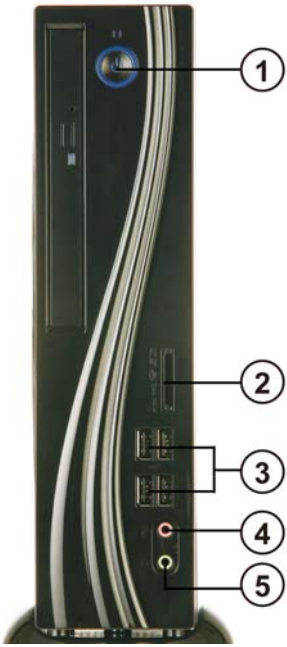
Specification

Chipset	•	AMD® Hudson D1
CPU Support	•	AMD® AMD E240/E350 processors
Memory	•	2 x SO-DIMM up to 8 GB, Dual-channel
Graphics	•	AMD Radeon HD 6310 from APU Support Full HD playback and DX11 for Window 7
Storage	•	Support 1 x 3.5” SATA II HDD
ODD	•	Support SATA II Slim DVD Super-multi Tray type
Front Panel	•	2x USB 3.0, 2x USB 2.0 (or 4 x USB 2.0) 1 x Headphone output 1 x MIC-IN 1 x Multi-card reader slot
Rear Panel	•	4 x USB 2.0 1 x 8 Channel Audio, 6 Jacks 1 x D-Sub(VGA) 1 x HDMI (support dual dispaly) 1 x 10/100/1000 LAN RJ45 1 x External Antenna (optional) 1 x TV-IN (optional) 1 x DC-IN 1 x COM port (optional) 1 x LPT port (optional)
Power	•	65W power adaptor
OS Support	•	Hardware Compatible with Windows 7
Expansion	•	2 x Mini-PCIe slot
Dimensions (mm)	•	270mm * 205mm * 70mm

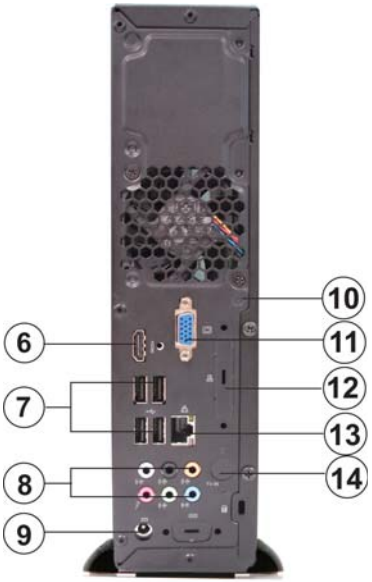
WARNING:

Please realize that there is a certain risk involved with overclocking, including adjusting the setting in the BIOS, or using the third-party overclocking tools. Overclocking may affect your system stability, or even case damage to the components and devices of your system. It should be done at your own risk and expense. We are not responsible for possible damage casesd by overclocking.

Front and Rear I/O



1. Power Button	Press the prower button to turn the system on and off.
2. 4 IN 1 Card Reader	Supports SD Card/ MMC Card/ MS Card. You can easily read phone or other files on the momery card. Digital cameras, DVs, MP3 or any other digital devices are compatible.
3. USB Connectors	The USB connector is used for USB devices, such as mouse, keyboard, printer, scanner and other USB-compatible device.
4. Mic In Jack	Connecting Microphone.
5. Headphone Jack	Connecting Headphone.



6. HDMI Connector	Connecting HDMI Device.
7. USB Connectors	Connecting USB Devices (USB2.0 Ports)
8. Eight channel HD Audio	Microphone Jack/ Headphone Jack/ Line In Jack.
9. DC Jack	It is used for power adapter
10. Antenna	It is used for an optional antenna
11. D-SUB Connector	Connecting VGA Monitor.
12. PRINTER Tuner (optional)	Printer in jack.
13. LAN	Connecting the Network.
14. TV Tuner (optional)	TV in jack.

Packing Contents

Driver DVD

Manual

Stand

Power

NOTE:

Please contact us immediately if any of the items is damaged or missing.

Memo

Chapter 2
Installing the PC

System Quick Installation

1. Connecting HDMI device.

2. Connecting VGA Monitor. (D-SUB Connector)

3. The USB connector is for attaching USB devices, such as mouse, keyboard, printer, scanner and other USB-compatible device.

4. Connecting the Network. (LAN Connector)

5. Connecting the Microphone. (Microphone Jack)

6. Connecting Speakers or Headphones. (Headphone Jack)

7. Connecting External Audio Device. (Line In Jack)

8. Connecting Power. (DC jack)

Memo

Chapter 3
Using BIOS

About the Setup Utility

The computer uses the latest "American Megatrends Inc. " BIOS with support for Windows Plug and Play. The CMOS chip on the motherboard contains the ROM setup instructions for configuring the motherboard BIOS.

The BIOS (Basic Input and Output System) Setup Utility displays the system's configuration status and provides you with options to set system parameters. The parameters are stored in battery-backed-up CMOS RAM that saves this information when the power is turned off. When the system is turned back on, the system is configured with the values you stored in CMOS.

The BIOS Setup Utility enables you to configure:

- Hard drives, diskette drives and peripherals
- Video display type and display options
- Password protection from unauthorized use
- Power Management features

The settings made in the Setup Utility affect how the computer performs. Before using the Setup Utility, ensure that you understand the Setup Utility options.

This chapter provides explanations for Setup Utility options.

The Standard Configuration

A standard configuration has already been set in the Setup Utility. However, we recommend that you read this chapter in case you need to make any changes in the future.

This Setup Utility should be used:

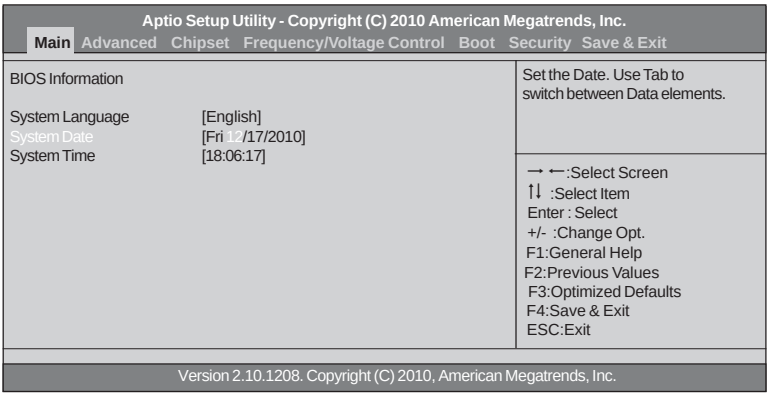
- when changing the system configuration
- when a configuration error is detected and you are prompted to make changes to the Setup Utility
- when trying to resolve IRQ conflicts
- when making changes to the Power Management configuration
- when changing the password or making other changes to the Security Setup

Entering the Setup Utility

When you power on the system, BIOS enters the Power-On Self Test (POST) routines. POST is a series of built-in diagnostics performed by the BIOS. After the POST routines are completed, the following message appears:

Press DEL to enter SETUP

Press the delete key to access BIOS Setup Utility.


Aptio Setup Utility - Copyright (C) 2010 American Megatrends, Inc.
Main Advanced Chipset Frequency/Voltage Control Boot Security Save & Exit
BIOS Information
System Language [English]
System Date [Fri 12/17/2010]
System Time [18:06:17]
Set the Date. Use Tab to switch between Data elements.
→←:Select Screen
↑↓ :Select Item
Enter : Select
+/- :Change Opt.
F1:General Help
F2:Previous Values
F3:Optimized Defaults
F4:Save & Exit
ESC:Exit
Version 2.10.1208. Copyright (C) 2010, American Megatrends, Inc.

Resetting the Default CMOS Values

When powering on for the first time, the POST screen may show a "CMOS Settings Wrong" message. This standard message will appear following a clear CMOS data at factory by the manufacturer. You simply need to Load Default Settings to reset the default CMOS values.

Note: Changes to system hardware such as different CPU, memories, etc. may also trigger this message.

American Megatrends
MDC - 3.8L Release 03/02/2011
Version 2.10.1208. Copyright (C) 2010 American Megatrends, Inc.
BIOS Date: 03/02/2011 10:24:13 Ver: 1AOVZ008
Press <F7> to enter BBS POPUP
Press <DEL> or <F2> to enter setup.
CMOS Settings Wrong

Using BIOS

When you start the Setup Utility, the main menu appears. The main menu of the Setup Utility displays a list of the options that are available. A highlight indicates which option is currently selected. Use the cursor arrow keys to move the highlight to other options. When an option is highlighted, execute the option by pressing <Enter>.

Some options lead to pop-up dialog boxes that prompt you to verify that you wish to execute that option. Other options lead to dialog boxes that prompt you for information.

Some options (marked with a triangle ▶) lead to submenus that enable you to change the values for the option. Use the cursor arrow keys to scroll through the items in the submenu.

In this manual, default values are enclosed in parenthesis. Submenu items are denoted by a triangle ▶.

The default BIOS setting for this motherboard apply for most conditions with optimum performance. We do not suggest users change the default values in the BIOS setup and take no responsibility to any damage caused by changing the BIOS settings.

BIOS Navigation Keys

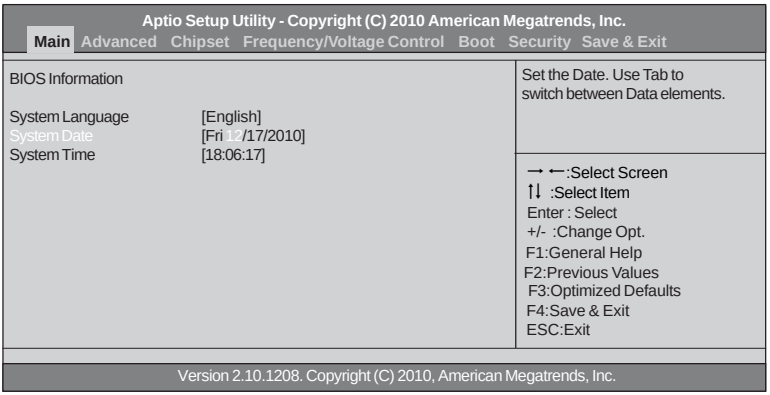
The BIOS navigation keys are listed below:

KEY	FUNCTION
ESC	Exits the current menu
↑↓→←	Scrolls through the items on a menu
+/-	Modifies the selected field's values
Enter	Select
F1	General Help
F2	Previous Value
F3	Optimized Defaults
F4	Save & Exit

For the purpose of better product maintenance, the manufacture reserves the right to change the BIOS items presented in this manual. The BIOS setup screens shown in this chapter are for reference only and may differ from the actual BIOS. Please visit the manufacture's website for updated manual.

Main Menu

When you enter the BIOS Setup program, the main menu appears, giving you an overview of the basic system information. Select an item and press <Enter> to display the submenu.


Aptio Setup Utility - Copyright (C) 2010 American Megatrends, Inc.
Main Advanced Chipset Frequency/Voltage Control Boot Security Save & Exit
BIOS Information
System Language [English]
System Date [Fri 12/17/2010]
System Time [18:06:17]
Set the Date. Use Tab to switch between Data elements.
→ ←:Select Screen
↑↓ :Select Item
Enter : Select
+/- :Change Opt.
F1:General Help
F2:Previous Values
F3:Optimized Defaults
F4:Save & Exit
ESC:Exit
Version 2.10.1208. Copyright (C) 2010, American Megatrends, Inc.

System Language (English)

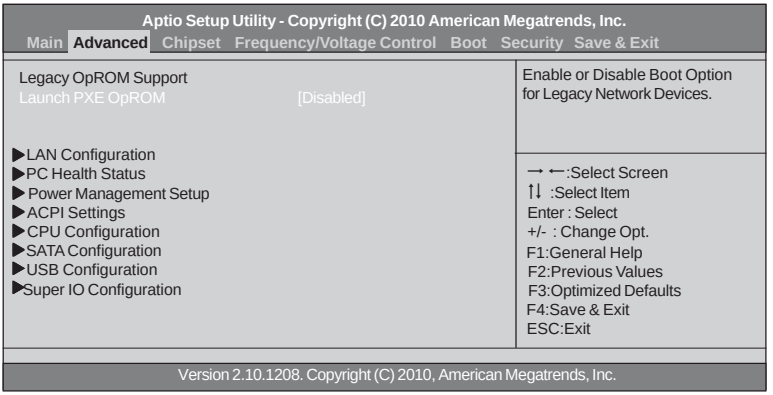
This item is used to set system language.

Date & Time

The Date and Time items show the current date and time on the computer. If you are running a Windows OS, these items are automatically updated whenever you make changes to the Windows Date and Time Properties utility.

Advaned Menu

The Advanced menu items allow you to change the settings for the CPU and other system.



Launch PXE OpROM

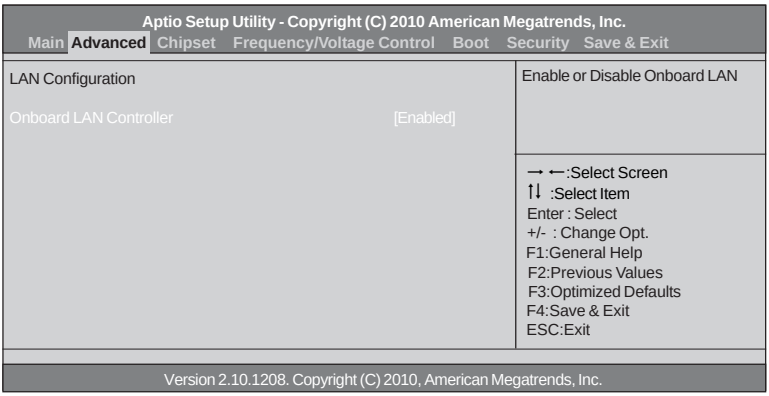
The item enables or disables launch PXE Option ROM.

Launch Storage OpROM (Disabled)

The item enables or disables launch Storage Option ROM.

LAN Configuration

The item in the menu shows the LAN-related information that the BIOS automatically detects.


Aptio Setup Utility - Copyright (C) 2010 American Megatrends, Inc.
Main Advanced Chipset Frequency/Voltage Control Boot Security Save & Exit
LAN Configuration
Onboard LAN Controller [Enabled]
Enable or Disable Onboard LAN
→ ←:Select Screen
↑↓ :Select Item
Enter : Select
+/- : Change Opt.
F1:General Help
F2:Previous Values
F3:Optimized Defaults
F4:Save & Exit
ESC:Exit
Version 2.10.1208. Copyright (C) 2010, American Megatrends, Inc.

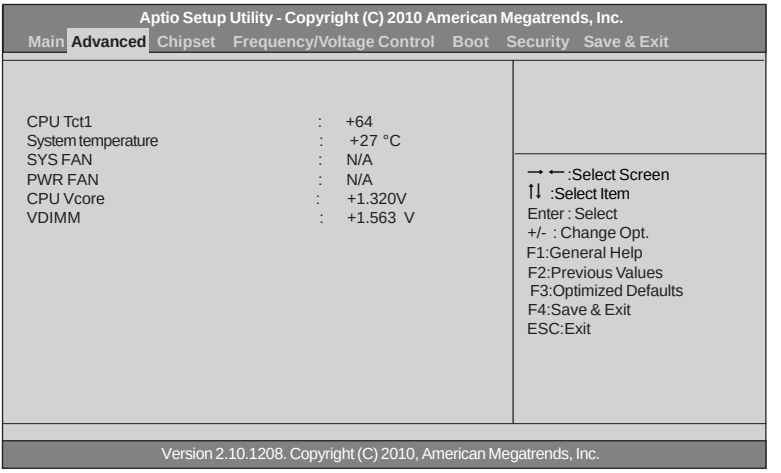
Onboard LAN Controller (Enabled)

Use this item to enable or disable the Onboard LAN.

Press <Esc> to return to the Advanced Menu page.

PC Health Status

On motherboards support hardware monitoring, this item lets you monitor the paeameters for critical voltages, temperatures and fan speeds.


Aptio Setup Utility - Copyright (C) 2010 American Megatrends, Inc.
Main Advanced Chipset Frequency/Voltage Control Boot Security Save & Exit
CPU Tct1 : +64
System temperature : +27 °C
SYS FAN : N/A
PWR FAN : N/A
CPU Vcore : +1.320V
VDIMM : +1.563 V
→ ← :Select Screen
↑↓ :Select Item
Enter : Select
+/- : Change Opt.
F1:General Help
F2:Previous Values
F3:Optimized Defaults
F4:Save & Exit
ESC:Exit
Version 2.10.1208. Copyright (C) 2010, American Megatrends, Inc.

System Component Characteristics

These items display the monitoring of the overall inboard hardware health events, such as System & CPU temperature, CPU & DIMM voltage, CPU & system fan speed,... etc.

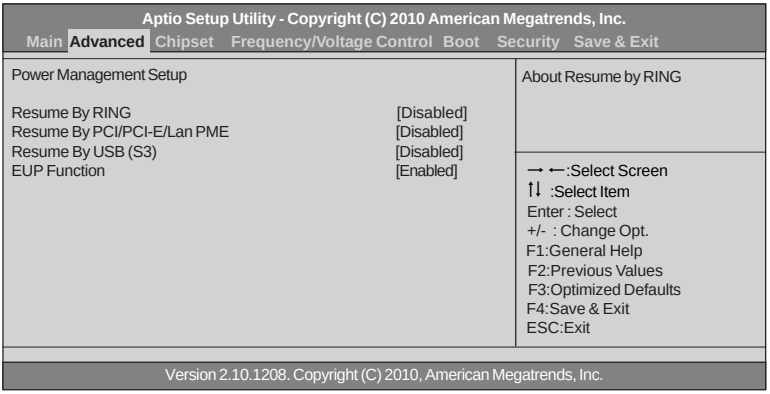
- CPU Tct1
- System temperature
- SYS FAN
- PWR FAN
- CPU Vcore
- VDIMM

Press <Esc> to return to the Advanced Menu page.

Press <Esc> to return to the Advanced Menu page.

Power Management Setup

This page sets up some parameters for system power management operation.


Aptio Setup Utility - Copyright (C) 2010 American Megatrends, Inc.
Main Advanced Chipset Frequency/Voltage Control Boot Security Save & Exit
Power Management Setup
Resume By RING [Disabled]
Resume By PCI/PCI-E/Lan PME [Disabled]
Resume By USB (S3) [Disabled]
EUP Function [Enabled]
About Resume by RING
→ ←:Select Screen
↑↓ :Select Item
Enter : Select
+/- : Change Opt.
F1:General Help
F2:Previous Values
F3:Optimized Defaults
F4:Save & Exit
ESC:Exit
Version 2.10.1208. Copyright (C) 2010, American Megatrends, Inc.

Resume By RING (Disabled)

An input signal on the serial Ring Indicator (RI) line (in other words, an incoming call on the modem) awakens the system from a soft off state.

Resume By PCI/PCI-E/Lan PME (Disabled)

The system can be turned off with a software command. If you enable this item, the system can automatically resume if there is an incoming call on the PCI Modem or PCI LAN card. You must use an ATX power supply in order to use this feature. Use this item to do wake-up action if inserting the PCI card.

Resume By USB (S3) (Disabled)

This item allows you to enable/disable the USB device wakeup function from S3 mode.

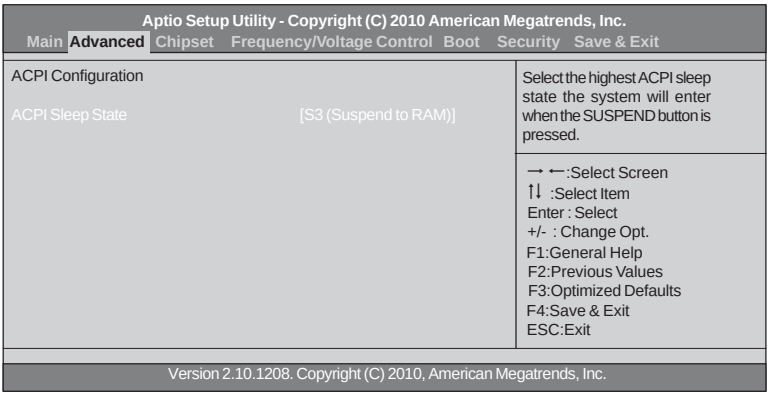
EUP Support (Enabled)

This item allows user to enable or disable EUP support.

Press <Esc> to return to the Advanced Menu page.

ACPI Configuration

The item in the menu shows the highest ACPI sleep state when the system enters suspend.


Aptio Setup Utility - Copyright (C) 2010 American Megatrends, Inc.
Main Advanced Chipset Frequency/Voltage Control Boot Security Save & Exit
ACPI Configuration
ACPI Sleep State [S3 (Suspend to RAM)]
Select the highest ACPI sleep state the system will enter when the SUSPEND button is pressed.
→ ←:Select Screen
↑↓ :Select Item
Enter : Select
+/- : Change Opt.
F1:General Help
F2:Previous Values
F3:Optimized Defaults
F4:Save & Exit
ESC:Exit
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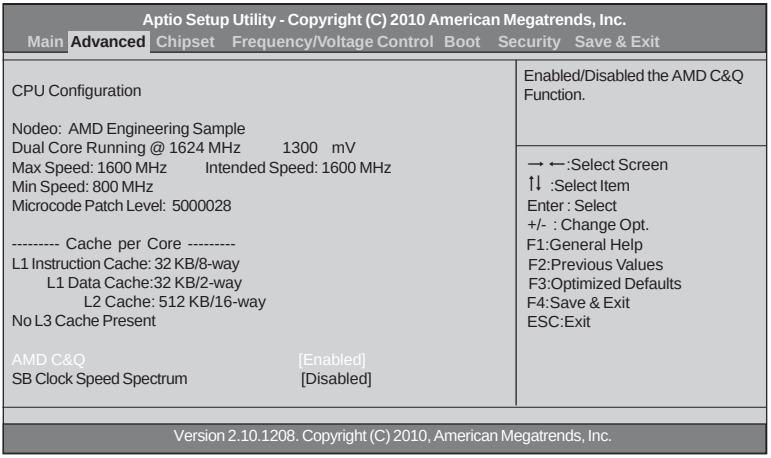
ACPI Sleep State (S3(Suspend to RAM))

This item allows user to enter the APCI S3 (Suspend toRAM) Sleep State(default).

Press <Esc> to return to the Advanced Menu page.

CPU Configuration

The item in the menu shows the CPU .


Aptio Setup Utility - Copyright (C) 2010 American Megatrends, Inc.
Main Advanced Chipset Frequency/Voltage Control Boot Security Save & Exit
CPU Configuration
Nodeo: AMD Engineering Sample
Dual Core Running @ 1624 MHz 1300 mV
Max Speed: 1600 MHz Intended Speed: 1600 MHz
Min Speed: 800 MHz
Microcode Patch Level: 5000028
--------- Cache per Core ---------
L1 Instruction Cache: 32 KB/8-way
L1 Data Cache:32 KB/2-way
L2 Cache: 512 KB/16-way
No L3 Cache Present
AMD C&Q [Enabled]
SB Clock Speed Spectrum [Disabled]
Enabled/Disabled the AMD C&Q Function.
→ ←:Select Screen
↑↓ :Select Item
Enter : Select
+/- : Change Opt.
F1:General Help
F2:Previous Values
F3:Optimized Defaults
F4:Save & Exit
ESC:Exit
Version 2.10.1208. Copyright (C) 2010, American Megatrends, Inc.

Dual Core Running @ 1624 MHz 1300 mV

This item shows the information of the current CPU Frequency & Voltage.

Max Speed (1600 MHz) Intended Speed (1600 MHz)

This item shows the maximum & intended speed of the CPU.

Min Speed (800 MHz)

This item shows the minimum speed of the CPU.

Microcode Patch Level (5000028)

This item shows the Microcode revision.

Information de cachette par noyau

This item shows the CPU cache.

L1 Instruction Cache (32 KB/8-way)

This item shows CPU L1 Cache.

L1 Data Cache (32 KB/2-way)

This item shows CPU L1 Cache.

L2 Cache (512 KB/16-way)

This item shows CPU L2 Cache.

No L3 Cache Present

This item shows CPU L3 Cache.

AMD C&Q (Enabled)

This item enables or disables the CPU C&Q Function.

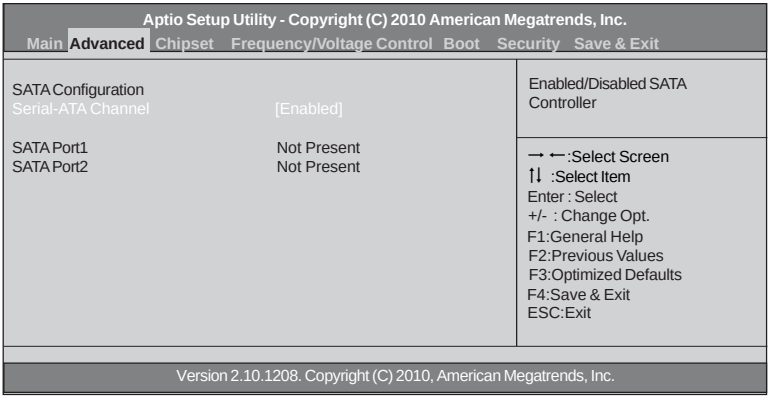
SB Clock Spread Spectrum (Enabled)

This item enables or disables the SB Clock Spread Spectrum.

Press <Esc> to return to the Advanced Menu page.

SATA Configuration

Use this item to show the mode of serial SATA configuration options.



Serial-ATA Channel (Enabled)

Use this item to enabled or disable the onchip SATA channel.

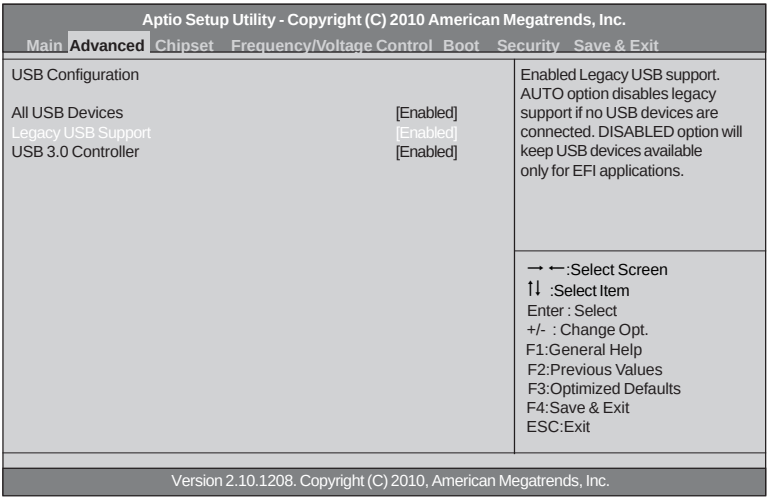
SATA Port1~2 (Not Present/ST380013AS)

This motherboard supports four SATA channels and each channel allows one SATA device to be installed. Use these items to configure each device on the SATA channel, and each channel allows one SATA device to be installed. Use these items to configure each device on the SATA channel.

Press <Esc> to return to the Advanced Menu page.

USB Configuration

Use this item to show the information of USB configuration.


Aptio Setup Utility - Copyright (C) 2010 American Megatrends, Inc.
Main Advanced Chipset Frequency/Voltage Control Boot Security Save & Exit
USB Configuration
All USB Devices [Enabled]
Legacy USB Support [Enabled]
USB 3.0 Controller [Enabled]
Enabled Legacy USB support. AUTO option disables legacy support if no USB devices are connected. DISABLED option will keep USB devices available only for EFI applications.
→ ←:Select Screen
↑↓ :Select Item
Enter : Select
+/- : Change Opt.
F1:General Help
F2:Previous Values
F3:Optimized Defaults
F4:Save & Exit
ESC:Exit
Version 2.10.1208. Copyright (C) 2010, American Megatrends, Inc.

All USB Devices (Enabled)

Use this item to enable or disable all USB devices.

Legacy USB Support (Enabled)

Use this item to enable or disable support for legacy USB devices.

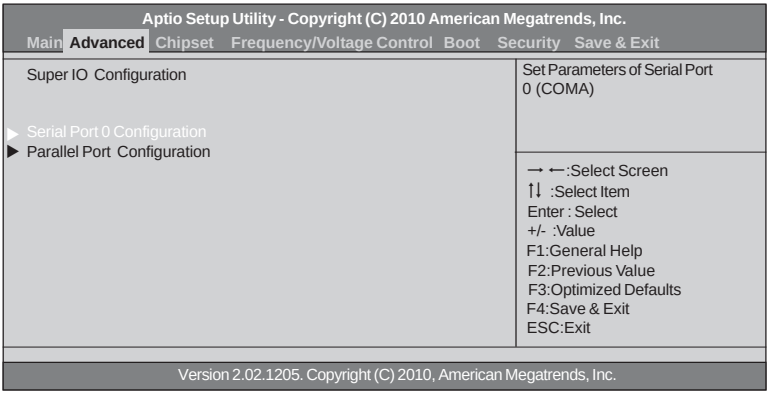
USB 3.0 Controller (Enabled)

Use this item to enable or disable USB 3.0 controller. We recommand users keep the default value. Disabling it might cause the USB devices not to work properly.

Press <Esc> to return to the Advanced Menu page.

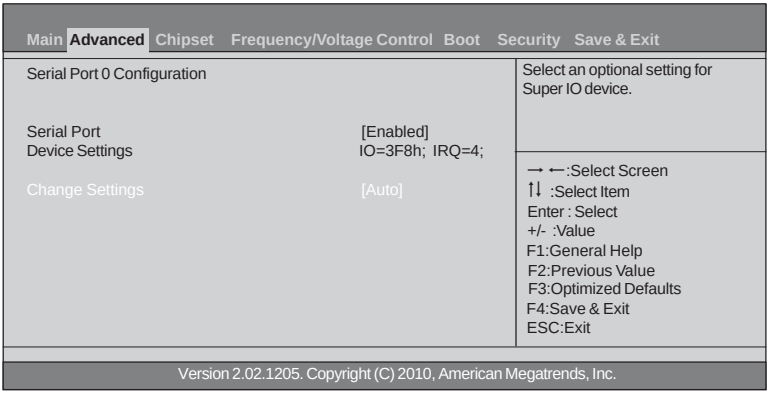
Super IO Configuration

Use this item to show the information of Super IO configuration.


Aptio Setup Utility - Copyright (C) 2010 American Megatrends, Inc.
Main Advanced Chipset Frequency/Voltage Control Boot Security Save & Exit
Super IO Configuration
Serial Port 0 Configuration
Parallel Port Configuration
Set Parameters of Serial Port 0 (COMA)
→ ←:Select Screen
↑↓ :Select Item
Enter : Select
+/- :Value
F1:General Help
F2:Previous Value
F3:Optimized Defaults
F4:Save & Exit
ESC:Exit
Version 2.02.1205. Copyright (C) 2010, American Megatrends, Inc.

►Serial Port 0 Configuration

Scroll to this item and press <Enter> to view the following screen:



Serial Port (Enabled)

This item allows you to enable or disable serial port.

Device Settings (IO=3F 8h; IRQ=4)

This item shows the information of the device settings.

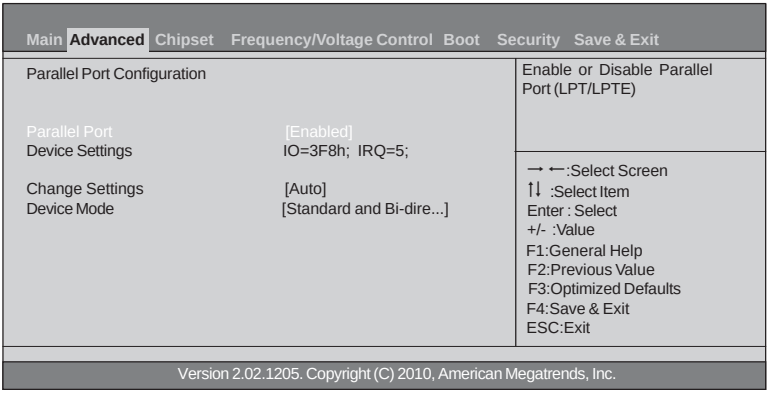
Change Settings (Auto)

Use this item to change device settings.

Press <Esc> to return to the Super IO Configuration page.

▶Parallel Port Configuration

Scroll to this item and press <Enter> to view the following screen:



Parallel Port (Enabled)

This item allows you to enable or disable parallel port.

Device Settings (IO=3F 8h; IRQ=5)

This item shows the information of the device settings.

Change Settings (Auto)

Use this item to change device settings.

Device Mode (Standard and Bi-dire...)

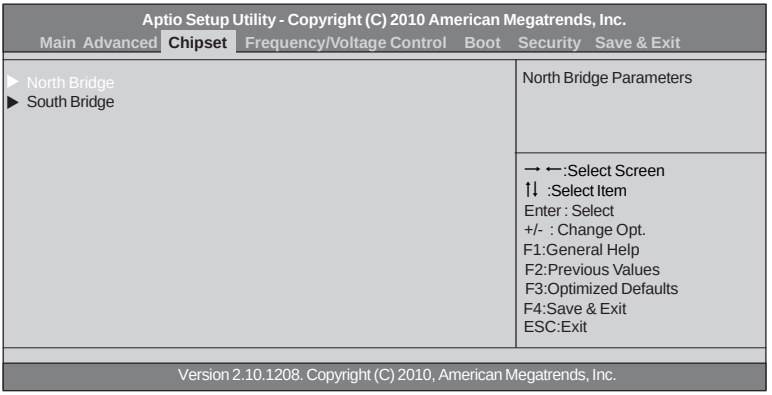
This item shows the information of the device mode.

Press <Esc> to return to the Super IO Configuration page.

Press <Esc> to return to the Advanced Menu page.

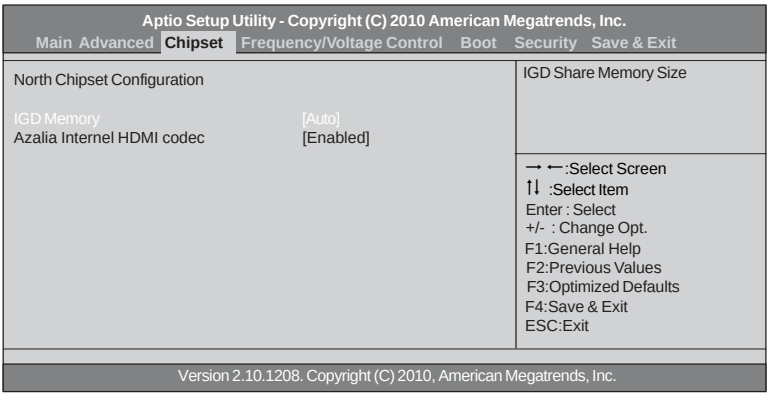
Chipset Menu

The chipset menu items allow you to change the settings for the North chipset, South chipset and other system.



►North Bridge

Scroll to this item and press <Enter> and view the following screen:


Aptio Setup Utility - Copyright (C) 2010 American Megatrends, Inc.
Main Advanced Chipset Frequency/Voltage Control Boot Security Save & Exit
North Chipset Configuration
IGD Memory [Auto]
Azalia Internel HDMI codec [Enabled]
IGD Share Memory Size
→←:Select Screen
↑↓ :Select Item
Enter : Select
+/- : Change Opt.
F1:General Help
F2:Previous Values
F3:Optimized Defaults
F4:Save & Exit
ESC:Exit
Version 2.10.1208. Copyright (C) 2010, American Megatrends, Inc.

IGD Memory (Auto)

This item shows the information of the IGD(Internal Graphics device) memory.

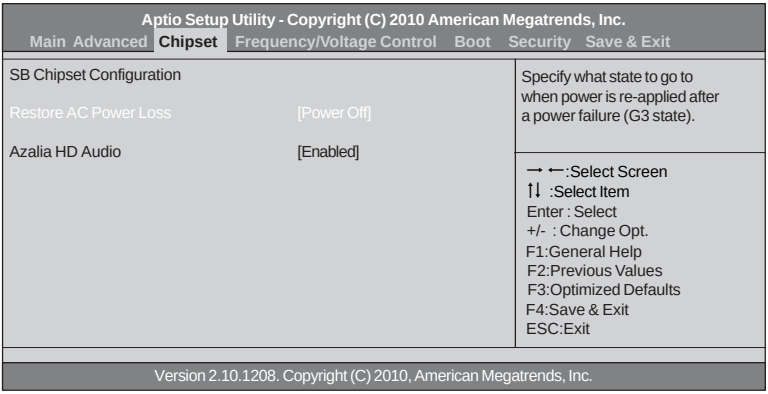
DVMT Mode Select (DVMT Mode)

This item allows you to enable or disable the Azalia Internal HDMI codec.

Press <Esc> to return to the chipset menu page.

▶South Bridge

Scroll to this item and press <Enter> to view the following screen.


Aptio Setup Utility - Copyright (C) 2010 American Megatrends, Inc.
Main Advanced Chipset Frequency/Voltage Control Boot Security Save & Exit
SB Chipset Configuration
Restore AC Power Loss [Power Off]
Azalia HD Audio [Enabled]
Specify what state to go to when power is re-applied after a power failure (G3 state).
→ ←:Select Screen
↑↓ :Select Item
Enter : Select
+/- : Change Opt.
F1:General Help
F2:Previous Values
F3:Optimized Defaults
F4:Save & Exit
ESC:Exit
Version 2.10.1208. Copyright (C) 2010, American Megatrends, Inc.

Restore AC Power Loss (Power Off)

This item specifies what state to go to when power is re-applied after a power failure (G3 state).

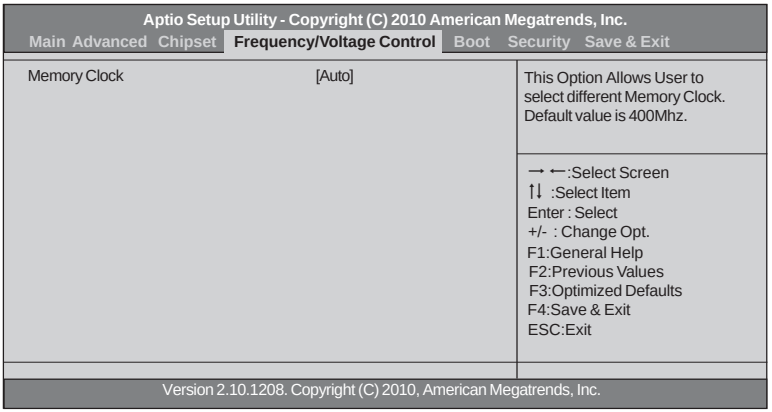
Azalia HD Audio (Enabled)

This item enables or disables Azalia HD audio.

Press <Esc> to return to the chipset menu page.

Frequency/Voltage Control Menu

This page enables you to set the clock speed and system bus for your system. The clock speed and system bus are determined by the kind of processor you have installed in your system.

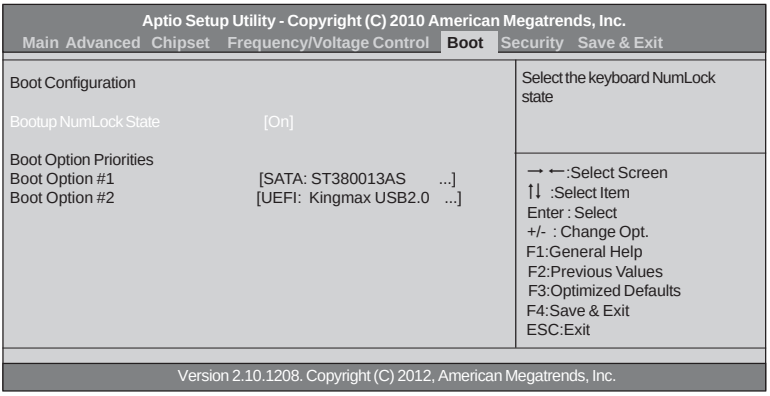

Aptio Setup Utility - Copyright (C) 2010 American Megatrends, Inc.
Main Advanced Chipset Frequency/Voltage Control Boot Security Save & Exit
Memory Clock
[Auto]
This Option Allows User to select different Memory Clock. Default value is 400Mhz.
→ ←:Select Screen
↑↓ :Select Item
Enter : Select
+/- : Change Opt.
F1:General Help
F2:Previous Values
F3:Optimized Defaults
F4:Save & Exit
ESC:Exit
Version 2.10.1208. Copyright (C) 2010, American Megatrends, Inc.

Memory Clock (Auto)

This item is used to set the memory clock.

Boot Menu

This page enables you to set the keyboard NumLock state.


Aptio Setup Utility - Copyright (C) 2010 American Megatrends, Inc.
Main Advanced Chipset Frequency/Voltage Control Boot Security Save & Exit
Boot Configuration
Bootup NumLock State [On]
Boot Option Priorities
Boot Option #1 [SATA: ST380013AS ...]
Boot Option #2 [UEFI: Kingmax USB2.0 ...]
Select the keyboard NumLock state
→ ←:Select Screen
↑↓ :Select Item
Enter : Select
+/- : Change Opt.
F1:General Help
F2:Previous Values
F3:Optimized Defaults
F4:Save & Exit
ESC:Exit
Version 2.10.1208. Copyright (C) 2012, American Megatrends, Inc.

Boot Configuration

This item shows the information of the Boot Configuration.

Bootup NumLock State (On)

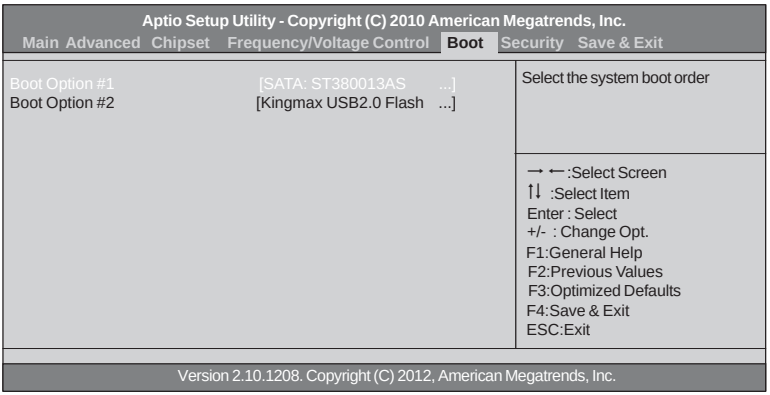
This item enables you to select NumLock state.

Boot Option Priorities

This item enables you to set boot option priorities.

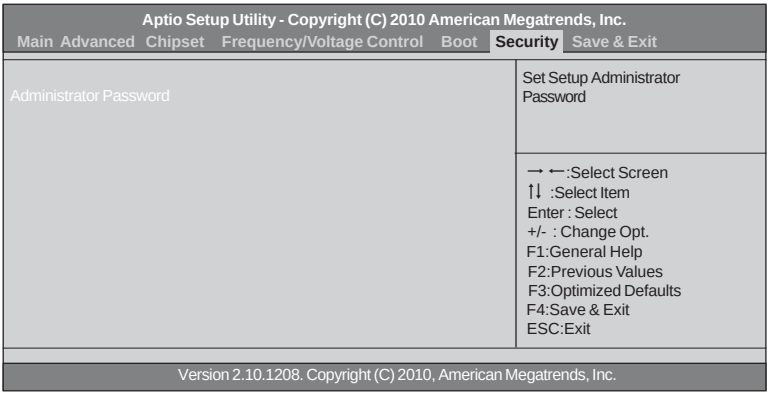
Boot Option #1/2 (SATA:ST380013AS .../UEFI:Kingmax USB2.0 ...)

These items set the system boot order.


Aptio Setup Utility - Copyright (C) 2010 American Megatrends, Inc.
Main Advanced Chipset Frequency/Voltage Control Boot Security Save & Exit
Boot Option #1 [SATA: ST380013AS ...]
Boot Option #2 [Kingmax USB2.0 Flash ...]
Select the system boot order
→ ←:Select Screen
↑↓ :Select Item
Enter : Select
+/- : Change Opt.
F1:General Help
F2:Previous Values
F3:Optimized Defaults
F4:Save & Exit
ESC:Exit
Version 2.10.1208. Copyright (C) 2012, American Megatrends, Inc.

Security Menu

This page enables you to set setup administrator and password.

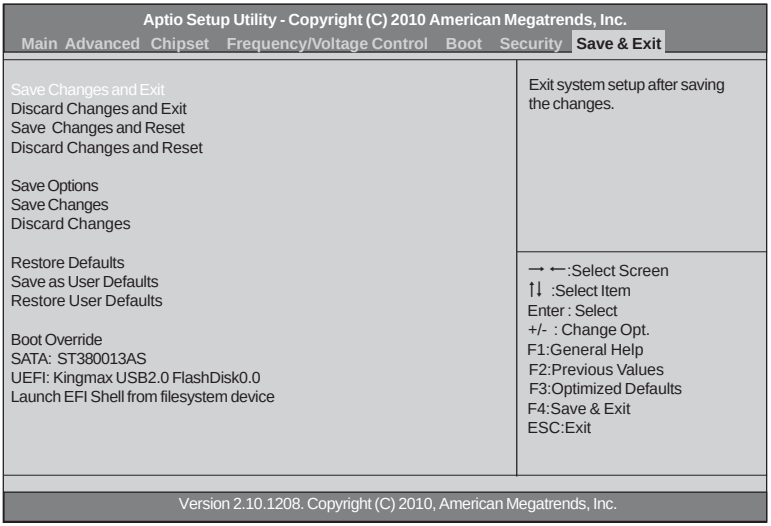

Aptio Setup Utility - Copyright (C) 2010 American Megatrends, Inc.
Main Advanced Chipset Frequency/Voltage Control Boot Security Save & Exit
Administrator Password
Set Setup Administrator Password
→ ←:Select Screen
↑↓ :Select Item
Enter : Select
+/- : Change Opt.
F1:General Help
F2:Previous Values
F3:Optimized Defaults
F4:Save & Exit
ESC:Exit
Version 2.10.1208. Copyright (C) 2010, American Megatrends, Inc.

Administrator Password

This item allows you to set up the administrator password.

Save & Exit Menu

This page enables you to exit system setup after saving or without saving the changes.



Save Changes and Exit

Use this item enables you to exit syste m setup after saving the changes.

Discard Changes and Exit

Use this item enables you to exit system setup without saving any changes.

Save Changes and Reset

Use this item enables you to reset the system setup after saving the changes.

Discard Changes and Reset

Use this item enables you to reset system setup without saving any changes.

Save Options

Use this item enables you to save the options that you have made.

Save Changes

Use this item enables you to save the changes that you have made.

Discard Changes

Use this item enables you to discard any changes that you have made.

Restore Defaults

Use this item enables you to restore the system defaults.

Save as User Defaults

Use this item enables you to save the changes that you have made as user defaults.

Restore User Defaults

Use this item enables you to restore user defaults to all the setup options.

Boot Override

Use this item enables you to set the device order.

SATA/UEFI/Launch EFI Shell from filesystem device

These items sets the system boot order.

Updating the BIOS

You can download and install updated BIOS for this motherboard from the manufacturer's Web site. New BIOS provides support for new peripherals, improvements in performance, or fixes for known bugs. Install new BIOS as follows:

1. If your motherboard has a BIOS protection jumper, change the setting to allow BIOS flashing.
2. If your motherboard has an item called Firmware Write Protect in Advanced BIOS features, disable it. (Firmware Write Protect prevents BIOS from being overwritten.)
3. Prepare a bootable device or create a bootable system disk. (Refer to Windows online help for information on creating a bootable system disk.)
4. Download the Flash Utility and new BIOS file from the manufacturer's Web site. Copy these files to the bootable device.
5. Turn off your computer and insert the bootable device in your computer. (You might need to run the Setup Utility and change the the boot priority items on the Advanced BIOS Features Setup page, to force your computer to boot from the bootable device first.)
6. At the C:\ or A:\ prompt, type the Flash Utility program name and the file name of the new BIOS and then press <Enter>. Example: AFUDOS.EXE 040706.ROM
7. When the installation is complete, remove the bootable device from the computer and restart your computer. If your motherboard has a Flash BIOS jumper, reset the jumper to protect the newly installed BIOS from being overwritten. The computer will restart automatically.

This concludes Chapter 3. Refer to the next chapter for information on the software supplied with the motherboard.

Chapter 4
Using the Software

About the Software DVD-ROM/CD-ROM

The support software DVD-ROM/CD-ROM that is included in the motherboard package contains all the drivers and utility programs needed to properly run the bundled products. Below you can find a brief description of each software program, and the location for your motherboard version. More information on some programs is available in a README file, located in the same directory as the software. Before installing any software, always inspect the folder for files named README.TXT or something similar. These files may contain important information that is not included in this manual.

1. *Never try to install all software from folder that is not specified for use with your motherboard.*
2. *The notice of Intel HD audio installation (optional): The Intel High Definition audio functionality unexpectedly quits working in Windows Server 2003 Service Pack 1 or Windows XP Professional x64 Edition. Users need to download and install the update packages from the Microsoft Download Center "before" installing HD audio driver bundled in the Driver disk. Please log on to http://support.microsoft.com/default.aspx?scid=kb;en-us;901105#appliesto for more information.*

Auto-installing under Windows 7

The Auto-install DVD-ROM/CD-ROM makes it easy for you to install the drivers and software for your motherboard.

If the Auto-install DVD-ROM/CD-ROM does not work on your system, you can still install drivers through the file manager for your OS (for example, Windows Explorer). Refer to the Utility Folder Installation Notes later in this chapter.

The support software DVD-ROM/CD-ROM disk loads automatically under Windows 7. When you insert the DVD-ROM/CD-ROM disk in the DVD-ROM/CD-ROM drive, the autorun feature will automatically bring up the install screen. The screen has three buttons on it, Setup, Browse CD and Exit.

If the opening screen does not appear; double-click the file "setup.exe" in the root directory.

Drivers Tab

Setup	Click the **Setup** button to run the software installation program. Select from the menu which software you want to install.
Browse CD	The **Browse CD** button is the standard Windows command that allows you to open Windows Explorer and show the contents of the support disk. Before installing the software from Windows Explorer, look for a file named README.TXT or something similar. This file may contain important information to help you install the software correctly. Some software is installed in separate folders for different operating systems, such as Windows 7. Always go to the correct folder for the kind of OS you are using. In install the software, execute a file named SETUP.EXE by double-clicking the file and then following the instructions on the screen.
Exit	The **Exit** button closes the Auto Setup window.

Utilities Tab

Lists the software utilities that are available on the disk.

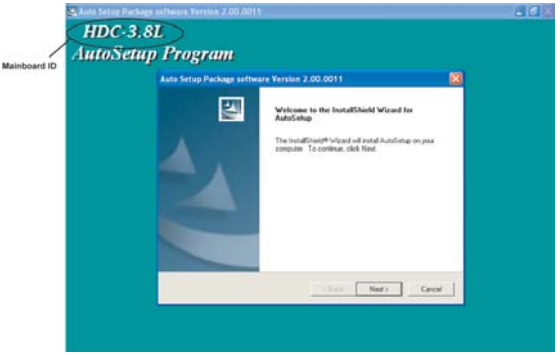
Information Tab

Displays the path for all software and drivers available on the disk.

Running Setup

Follow these instructions to install device drivers and software for the motherboard:

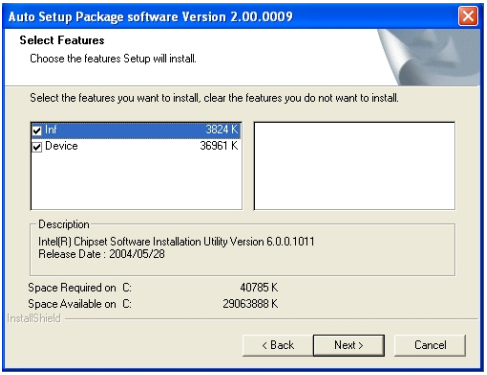
1. *Click **Setup.** The installation program begins:*



The following screens are examples only. The screens and driver lists will be different according to the motherboard you are installing.

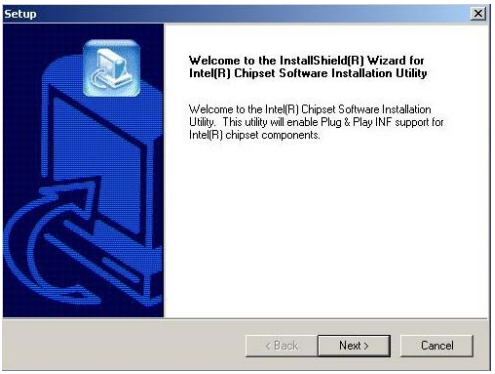
The motherboard identification is located in the upper left-hand corner.

2. *Click **Next.** The following screen appears:*


Auto Setup Package software Version 2.00.0009
Select Features
Choose the features Setup will install.
Select the features you want to install, clear the features you do not want to install.
Inf 3824 K
Device 36961 K
Description
Intel(R) Chipset Software Installation Utility Version 6.0.0.1011
Release Date : 2004/05/28
Space Required on C: 40785 K
Space Available on C: 29063888 K
InstallShield
< Back
Next >
Cancel

3. *Check the box next to the items you want to install. The default options are recommended.*

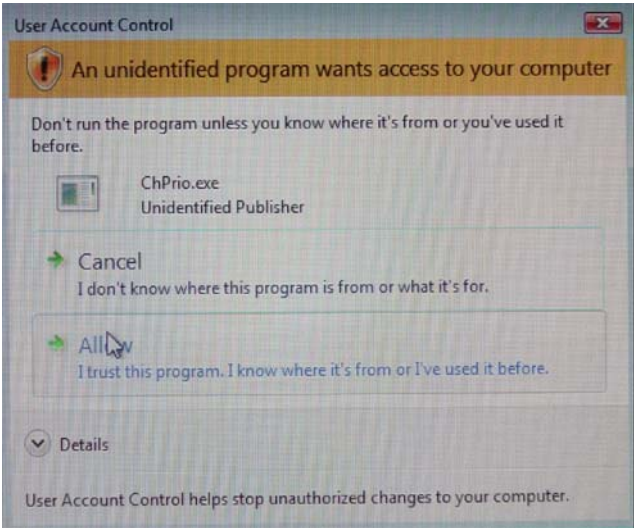
4. *Click **Next** run the Installation Wizard. An item installation screen appears:*


Setup
Welcome to the InstallShield(R) Wizard for Intel(R) Chipset Software Installation Utility
Welcome to the Intel(R) Chipset Software Installation Utility. This utility will enable Plug & Play INF support for Intel(R) chipset components.
< Back
Next >
Cancel

5. *Follow the instructions on the screen to install the items.*

Drivers and software are automatically installed in sequence. Follow the onscreen instructions, confirm commands and allow the computer to restart a few times to complete the installation.

Windows 7 will appear below UAC (User Account Control) message after the system restart. You must select "Allow" to install the next driver. Continue this process to complete the drivers installation.


User Account Control
An unidentified program wants access to your computer
Don't run the program unless you know where it's from or you've used it before.
ChPrio.exe
Unidentified Publisher
Cancel
I don't know where this program is from or what it's for.
Allow
I trust this program. I know where it's from or I've used it before.
Details
User Account Control helps stop unauthorized changes to your computer.

Manual Installation

Insert the disk in the DVD-ROM/CD-ROM drive and locate the PATH.DOC file in the root directory. This file contains the information needed to locate the drivers for your motherboard.

Look for the chipset and motherboard model; then browse to the directory and path to begin installing the drivers. Most drivers have a setup program (SETUP.EXE) that automatically detects your operating system before installation. Other drivers have the setup program located in the operating system subfolder.

If the driver you want to install does not have a setup program, browse to the operating system subfolder and locate the readme text file (README.TXT or README.DOC) for information on installing the driver or software for your operating system.

Utility Software Reference

All the utility software available from this page is Windows compliant. They are provided only for the convenience of the customer. The following software is furnished under license and may only be used or copied in accordance with the terms of the license.

These software(s) are subject to change at anytime without prior notice. Please refer to the support disk for available software.

Chapter 5
Trouble Shooting

Start up problems during assembly

After assembling the PC for the first time you may experience some start up problems. Before calling for technical support or returning for warranty, this chapter may help to address some of the common questions using some basic troubleshooting tips.

a) System does not power up and the fans are not running.

1.Disassemble the PC to remove the VGA adaptor card, DDR memory, LAN, USB and other peripherals including keyboard and mouse. Leave only the motherboard, CPU with CPU cooler and power supply connected. Turn on again to see if the CPU and power supply fans are running.

2. Make sure to remove any unused screws or other metal objects such as screwdrivers from the inside PC case. This is to prevent damage from short circuit.

3. Check the CPU FAN connector is connected to the motherboard.

4. For Intel platforms check the pins on the CPU socket for damage or bent. A bent pin may cause failure to boot and sometimes permanent damage from short circuit.

5. Check the 12V power connector is connected to the motherboard.

6. Check that the 12V power & ATX connectors are fully inserted into the motherboard connectors. Make sure the latches of the cable and connector are locked into place.

b) Power is on, fans are running but there is no display

1. Make sure the monitor is turned on and the monitor cable is properly connected to the PC.
2. Check the VGA adapter card (if applicable) is inserted properly.
3. Listen for beep sounds. If you are using internal PC speaker make sure it is connected.
   a. continuous 3 short beeps : memory not detected
   b. 1 long beep and 8 short beeps : VGA not detected

c) The PC suddenly shuts down while booting up.

1. The CPU may experience overheating so it will shutdown to protect itself. Ensure the CPU fan is working properly.
2. From the BIOS setting, try to disable the Smartfan function to let the fan run at default speed. Doing a Load Optimised Default will also disable the Smartfan.

Start up problems after prolong use

After a prolong period of use your PC may experience start up problems again. This may be caused by breakdown of devices connected to the motherboard such as HDD, CPU fan, etc. The following tips may help to revive the PC or identify the cause of failure.

1. Clear the CMOS values using the CLR_CMOS jumper. Refer to CLR_CMOS jumper in Chapter 2 for Checking Jumper Settings in this user manual. When completed, follow up with a Load Optimised Default in the BIOS setup.

2. Check the system fan for dust. Long term accumulation of dust will reduce its effectiveness to cool the processor. Clean the cooler or replace a new one if necessary.

3. Remove the hard drive, optical drive or DDR memory to determine which of these component may be at fault.

Maintenance and care tips

Your computer, like any electrical appliance, requires proper care and maintenance. Here are some basic PC care tips to help prolong the life of the motherboard and keep it running as best as it can.

1. Keep your computer in a well ventilated area. Leave some space between the PC and the wall for sufficient airflow.

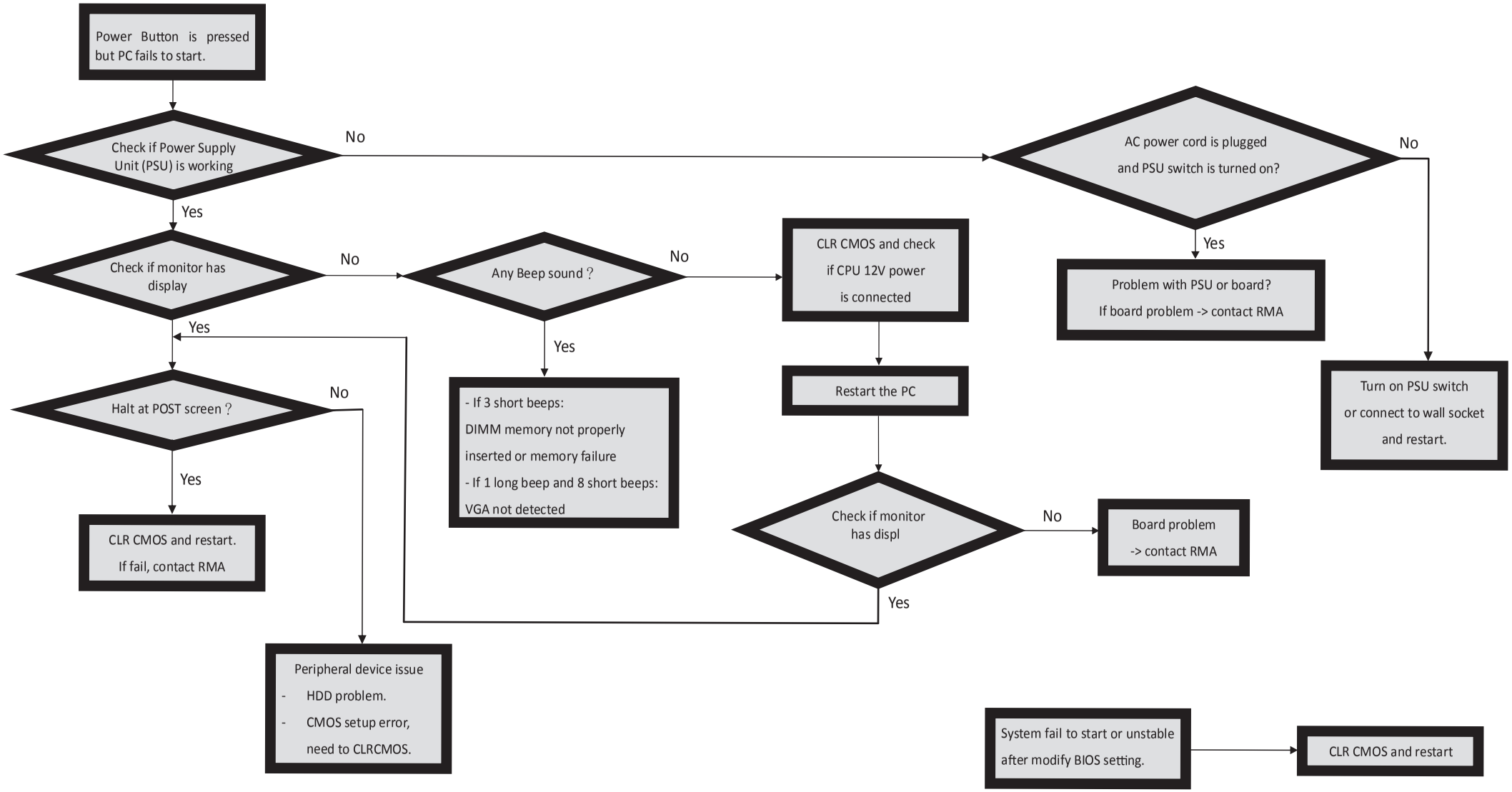
2. Keep your computer in a cool dry place. Avoid dusty areas, direct sunlight and areas of high moisture content.

3. Routinely clean the CPU cooler fan to remove dust and hair.

4. In places of hot and humid weather you should turn on your computer once every other week to circulate the air and prevent damage from humidity.

5. Add more memory to your computer if possible. This not only speeds up the system but also reduces the loading of your hard drive to prolong its life span.

6. If possible, ensure the power cord has an earth ground pin directly from the wall outlet. This will reduce voltage fluctuation that may damage sensitive devices.


Power Button is pressed but PC fails to start.
Check if Power Supply Unit (PSU) is working
No
AC power cord is plugged and PSU switch is turned on?
No
Yes
Problem with PSU or board? If board problem -> contact RMA
Turn on PSU switch or connect to wall socket and restart.
Yes
Check if monitor has display
No
Any Beep sound ?
No
CLR CMOS and check if CPU 12V power is connected
Yes
- If 3 short beeps: DIMM memory not properly inserted or memory failure
- If 1 long beep and 8 short beeps: VGA not detected
Restart the PC
Yes
Halt at POST screen ?
No
Yes
CLR CMOS and restart. If fail, contact RMA
Check if monitor has displ
No
Board problem -> contact RMA
Yes
Peripheral device issue
- HDD problem.
- CMOS setup error, need to CLRCMOS.
System fail to start or unstable after modify BIOS setting.
CLR CMOS and restart

Memo